

$L$

$S3$   $S4$

30 40 50

BETA	_ta		MENFIMHKNGK.	KLFQIDTYTGMTIA	GLVG
PUP3	_sc	b3	SQSLGVSNKFE.	KIFHYG.HVFLGIT	GLAT
C11	_sc	b4	RGISVLKDSDD.	KTRQLSPHTLMSFA	GEAG
C5	_sc	b6	ITDYSINSRYEP	KVFDCGDNI VMSANG	FAA
PRE4	_sc	b7	YGSLLRFNGVE.	RLIPVGDNTVVGIS	GDIS
PUP1	_sc	b2	<del>QGPIVADKNCÁ.</del>	<del>KLHRIŠPkiWCAGÁ</del>	<del>GTÁÁ</del>
MECL1	_hu		NDSVVADKSCÉ.	KIHFIAPKIYCCGAG	VAA
PRE2	_sc	b5	AGNWWASQTVK.	KVIEINPFLLGTMAG	GGAA
X	_hu		AGAYIASQTVK.	KVIEINPYLLGTMAG	GGAA
LMP7	_hu		AGSYISALRVN.	KVIEINPYLLGTM	SGCAA
PRE3	_sc	b1	TGAYIANRVTD.	KLTRVHDKIWCCRS	GSAA
Y	_hu		TGSYIANRVTD.	KLTPIHDRIFCCRS	GSAA
LMP2	hu		AGEAVVNRVFD.	KLSPLHERIYCALSG	SAA

\_\_\_\_\_

			60	70
BETA	_ta		DAQVLVRYMKAELELYR. . . .	LQRRVN.MP
PUP3	_sc	b3	DVTTLNEMFRYKTNLYK. . . .	LK.EERAIE
C11	_sc	b4	DTVQFAEYIQANIQLYS. . . .	IREDYE.LS
C5	_sc	b6	DGDALVKRFRKNSVKWYH. . . .	FDHNDKKLS
PRE4	_sc	b7	DMQHIERLLKDLVTENAYDN	PLADAEAALE
PUP1	_sc	b2	DT EAVTOLIGSNIELHS. . . .	LYTSRE.PR
MECL1	_hu		DAEMTTRMVASKMELHA. . . .	LSTGRE.PR
PRE2	_sc	b5	DCQFWETWLGSCRLHE. . . .	LRERKER.IS
X	_hu		DCSFWERLLARQCRIYE. . . .	LRNKER.IS
LMP7	_hu		DCQYWERLLAKECRLYY. . . .	LRNGER.IS
PRE3	_sc	b1	DTQAIADIVQYHLELYT. . . .	SOYGTP.S
Y	_hu		DTQAVADAVTYQLGFHS. . . .	IELNEP.PL
LMP2	hu		DAQAVADM AAYQLELHG. . . .	IELEEP.PL

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Fig.1b

			H 2			S 5
			80	90	100	
BETA	ta		IEAVATLLSNMLNQV.	KYMPYMVQLLVGG		
PUP3	sc	b3	PETFTQLVSSSLYE.	RRFGPYFVGPVVAG		
C11	sc	b4	PQAVSSSFVRQELAKSIRSRRPYQVNVLIG			
C5	sc	b6	INSAARNIQHLLYG.	KRFFPYVHTIIAG		
PRE4	sc	b7	PSYIFEYLATVMYQRRSKMNPLWNAIIVAG			
PUP1	sc	b2	VVSAALOMLKQHLFKY.	QG.HIGAYLIVAG		
MECL1	hu		VATVTRILRQTLFRY.	QG.HVGASLIVGG		
PRE2	sc	b5	VAAASKILSNLVYQY.	KGAGLSMGTMICG		
X	hu		VAAASKLLANMVYQY.	KGMGLSMGTMICG		
LMP7	hu		VSAASKLLSNMMCQY.	RGMGLSMGSMICG		
PRE3	sc	b1	TETAASVFKELCYEN.	KD.NLTAGIIVAG		
Y	hu		VHTAASLFKEMCYRY.	RE.DLMAGIIAG		
LMP2	hu		VLAAANVVRNISKY.	RE.DLSAHLMVAG		
			S 6	S 7	S 8	
			110	120		
BETA	ta		IDT..A.PHVFSIDAA	GG SVE.DIYASTGS		
PUP3	sc	b3	INSKSGKPFIAFGDLI	GCIDEAKDFIVSGT		
C11	sc	b4	YDKKKNKPELYQIDYL	GTKVE.LPYGAHGY		
C5	sc	b6	LD.EDGKGAVYSFDPV	GSYER.EQCRAGGA		
PRE4	sc	b7	VQS.NGDQFLRYVNLL	GVTYS.SPTLATGF		
PUP1	sc	b2	VDP.TG.SHLFSIHAAH	GSTDV.GYYLSLGS		
MECL1	hu		VDL.TG.POLYGVHPH	GSYSR.LPFTALGS		
PRE2	sc	b5	YTRKEG.PTIYYVDS	GTRLK.GDIFCVGS		
X	hu		WDKR.G.PGLYYVDSE	GNRIS.GATFSVGS		
LMP7	hu		WDKK.G.PGLYYVDEH	GTRLS.GNMFSTGS		
PRE3	sc	b1	YDDKNK.GEVYTIPLG	GSVHK.LPYAIFGS		
Y	hu		WD PQEG.GQGYSPMG	GMMVR.QSFAIGGS		
LMP2	hu		WDQREG.GQVYG.TLGG	GMLTR.QPFAIGGS		
			H 3			
			130	140		
BETA	ta		GSPFVYGVLESQYSEK.			
PUP3	sc	b3	ASDQLFGMCESLYEPN.			
C11	sc	b4	SGFYTFSLLDHHYRPD.			
C5	sc	b6	AASLIMPFLDNQVNFKNQYEPGTNGKVKKP			
PRE4	sc	b7	GAHMANPLLRKVVDRESDIPKT.			
PUP1	sc	b2	GS LAAMA VLES HWK QD.			
MECL1	hu		GQDAALAVLED RFQPN.			
PRE2	sc	b5	GQTFAYGVLD SN YKWD.			
X	hu		GSVYAYGVMDRGYSYD.			
LMP7	hu		GNTYAYGVMDSGYRPN.			
PRE3	sc	b1	GSTFIYGYCDKNFREN.			
Y	hu		GSSYIYGYVDATYREG.			
LMP2	hu		GSTFIYGYVDAAYKPG.			

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Process for Purification

Fig.1c

H 4

	150	160	170
BETA_ta	...MTVDEGV	DLVIRAI	SAAKQRDSASGGM
PUP3_sc b3	...LEPEDLF	ETISQALL	NAADRDAISGWG
C11_sc b4	...MTTEEGL	DLLKLCV	QEELEKRM
C5_sc b6	LKYL	SVEEVIK	LVRDSFTS
PRE4_sc b7	...TVQVAEE	EAI	VNAMRVLY
PUP1_sc b2	...LTKEEA	IKLASDA	IQAGIWN
MECL1_hu	...MTLEAA	OGLLVEA	VTAGILGD
PRE2_sc b5	...LSVEDA	LYLGKRS	ILAAAH
X_hu	...LEVEQA	YDLARRA	IYQATYR
LMP7_hu	...LSPEEA	YDLGRRA	IAYATHR
PRE3_sc b1	...MSKEET	VDFIKHS	LSQA
Y_hu	...MTKEEC	LQFTANA	LALAMER
LMP2_hu	...MSPEEC	RRTTDA	IATALAM

	S 9	S 10	H 5	180	190	200
BETA_ta	IDVA	VITRK	DGYVQ	LPTDQ	IESR	IRKLGL
PUP3_sc b3	AVVY	IIKKD	EVVKR	YLKMR	QD	.....
C11_sc b4	VIVK	IVDKD	GIRQV	DDFQA	Q	.....
C5_sc b6	LEIL	IVTKD	GVRKE	FYEL	KRD	.....
PRE4_sc b7	FSLA	IIDKN	TGLTF	KKNLQ	VENMK	WDFAKD
PUP1_sc b2	VDVC	VM	EIGKDA	EYLRN	YLT	PNVREEKQKS
MECL1_hu	VDAC	VITKT	GAKL	LR	TLSS	PTEPVKRSGR
PRE2_sc b5	VNLY	HV	TEDG	WIYHG	NH	VDVGE
X_hu	VNLY	HV	REDG	WIRV	SSDN	VADLHEKYS
LMP7_hu	VNMY	HM	KEDG	WVKV	ESTD	VSDLLH
PRE3_sc b1	IRMV	VLTAA	GV	ERLIF	YPDE	YEQL
Y_hu	IRLA	AAIAE	SGV	ERQV	LLGD	QIPKFAVATLP
LMP2_hu	IYLV	TTITA	AGVD	HRVIL	GNEL	PKFYDE

	210	220
BETA_ta	L	.....
PUP3_sc b3	.....	.....
C11_sc b4	.....	.....
C5_sc b6	.....	.....
PRE4_sc b7	IKGY	GTQKI
PUP1_sc b2	YKF	PRGTTAVLKESIVNIC
MECL1_hu	YHF	VPGTTAVLTQTQVKPLTLELVEETVQAM
PRE2_sc b5	EGS	FNNVIG
X_hu	TP	.....
LMP7_hu	NQ	.....
PRE3_sc b1	PA	.....
Y_hu	.....	.....
LMP2_hu	.....	.....

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A PROFESSIONAL CORPORATION

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WASHINGTON, D.C. 20005

Process for Purification

Fig.1d

BETA_ta	...
PUP3_sc b3	...
C11_sc b4	...
C5_sc b6	...
PRE4_sc b7	...
PUP1_sc b2	<del>A</del> ...
MECL1_hu	<del>EVE</del>
PRE2_sc b5	...
X_hu	...
LMP7_hu	...
PRE3-sc b1	...
Y_hu	...
LMP2_hu	...

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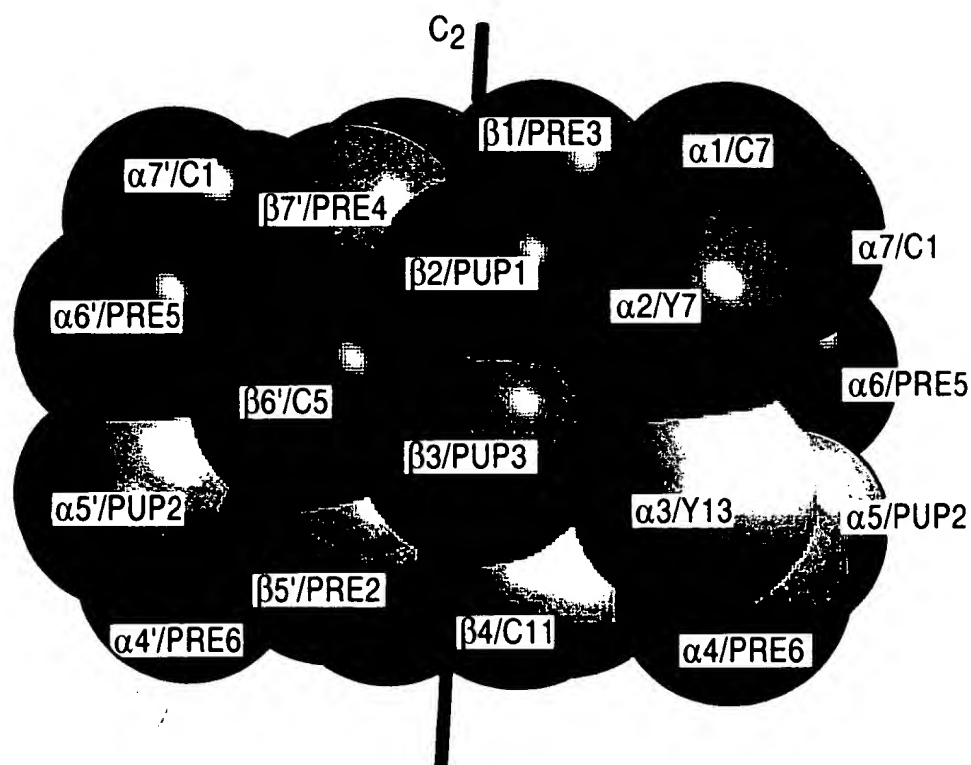
1425 K STREET, N.W.

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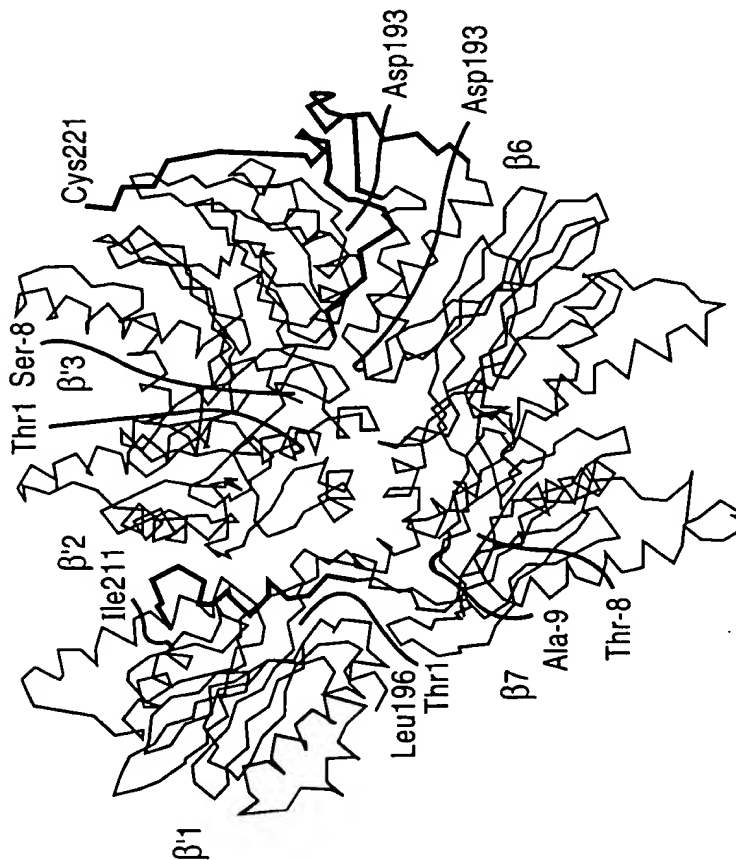
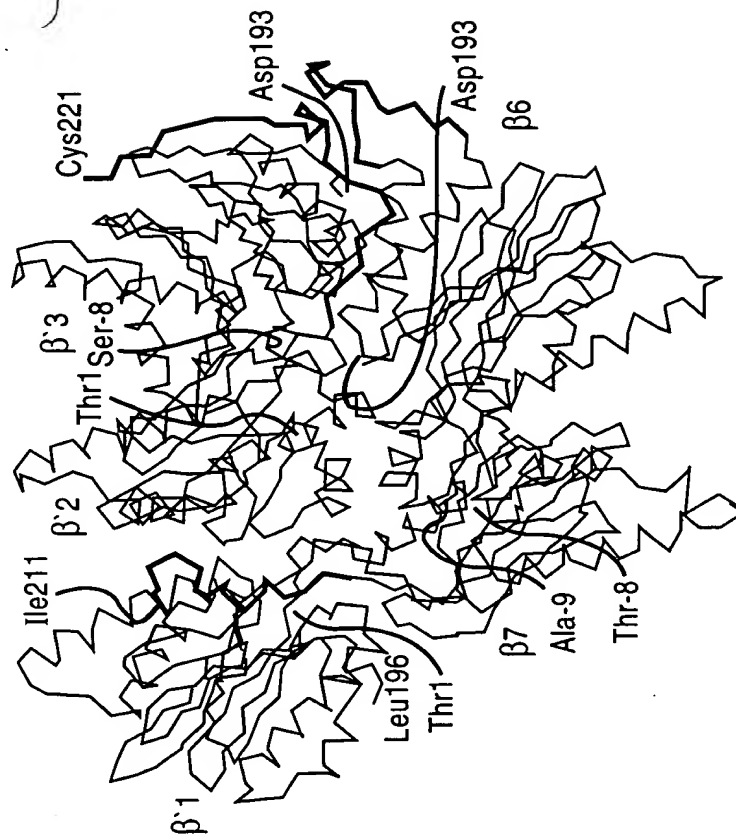
Fig.2



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Process for Purification

Fig.3



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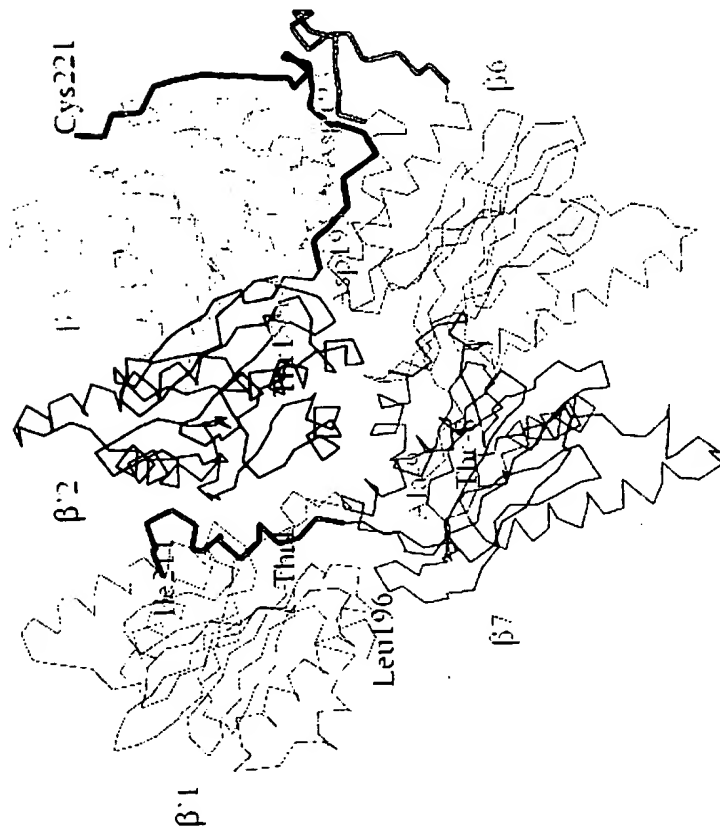
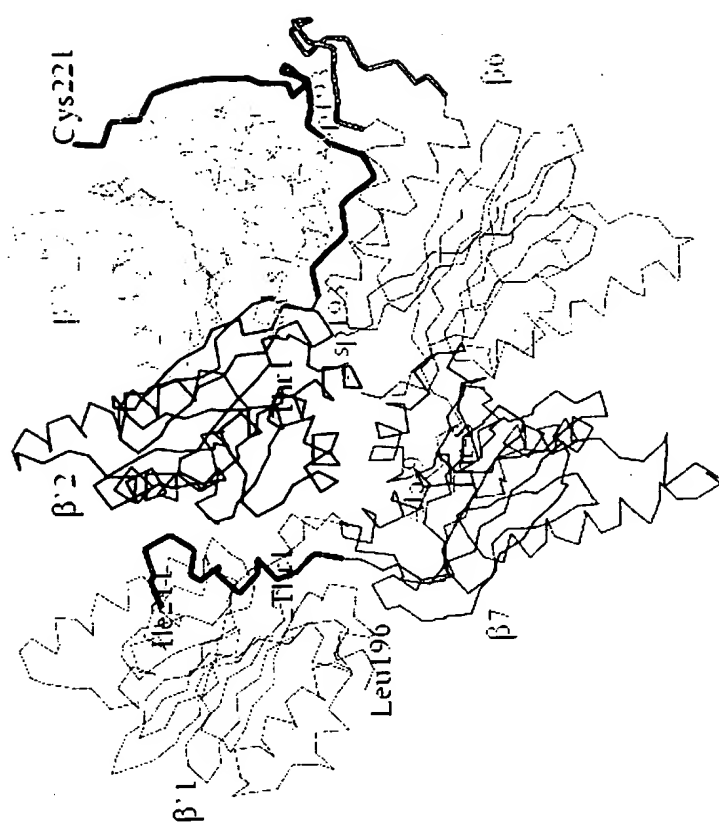


Fig.3

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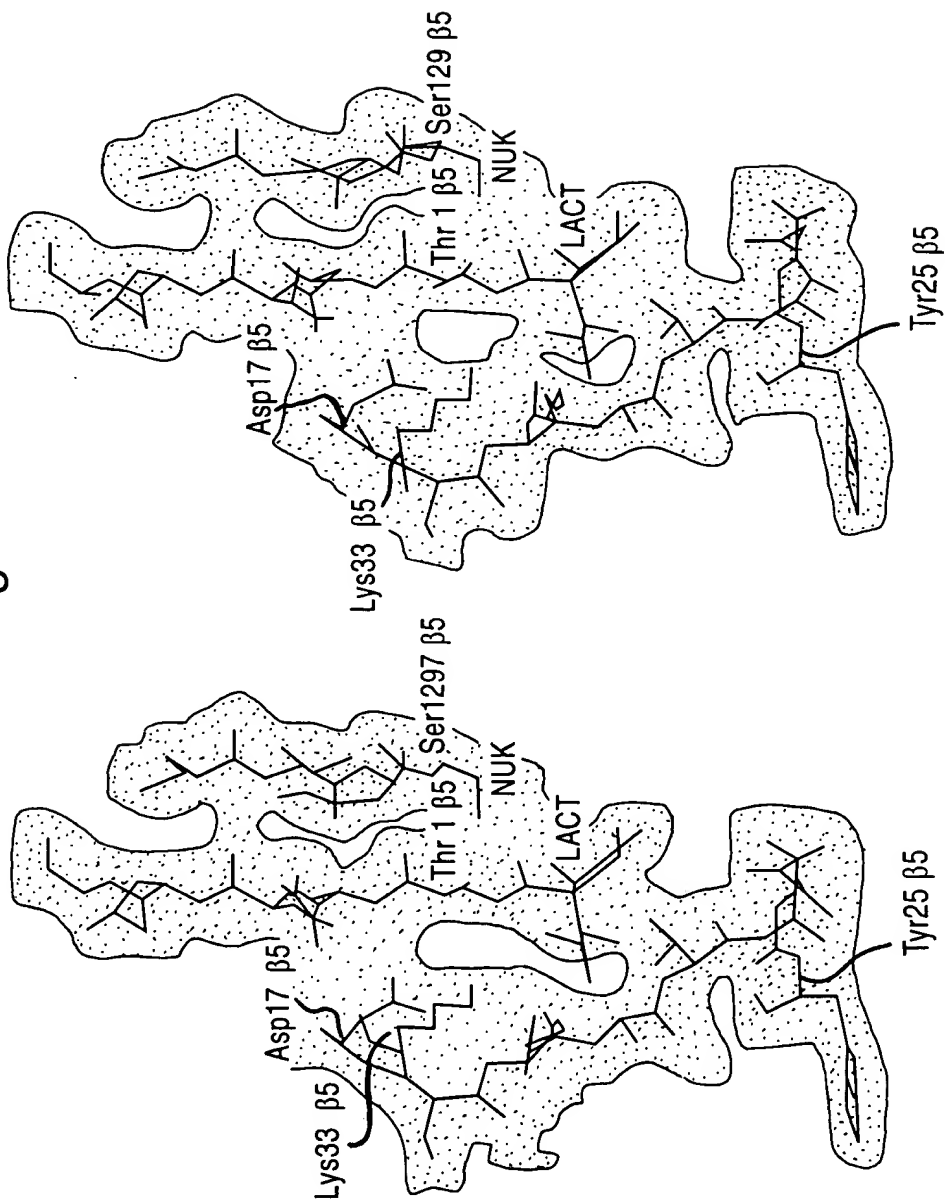
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Process for Purification

Fig. 4a



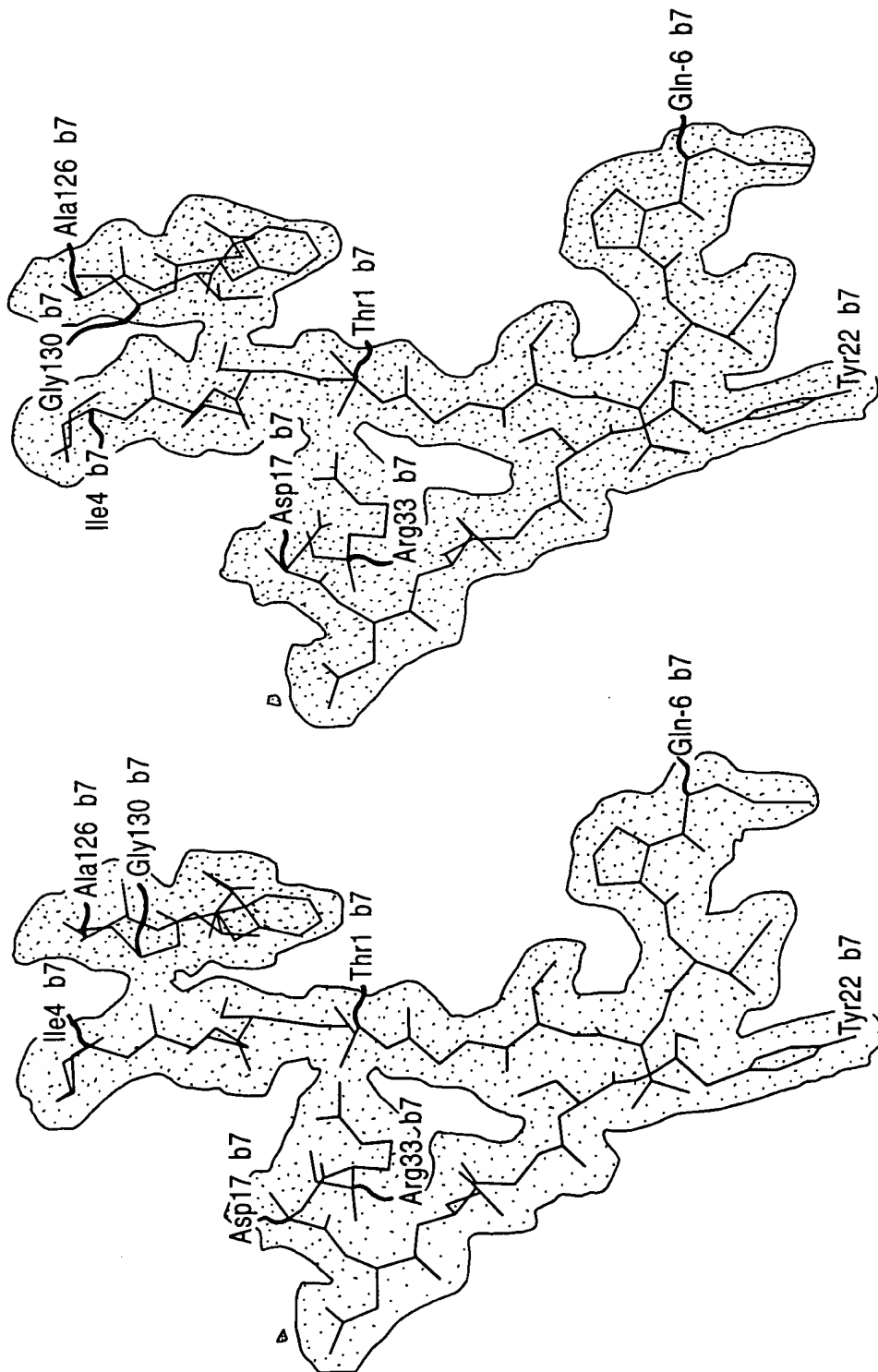
klac map2



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Process for Purification

Fig.4b



pre4 map2

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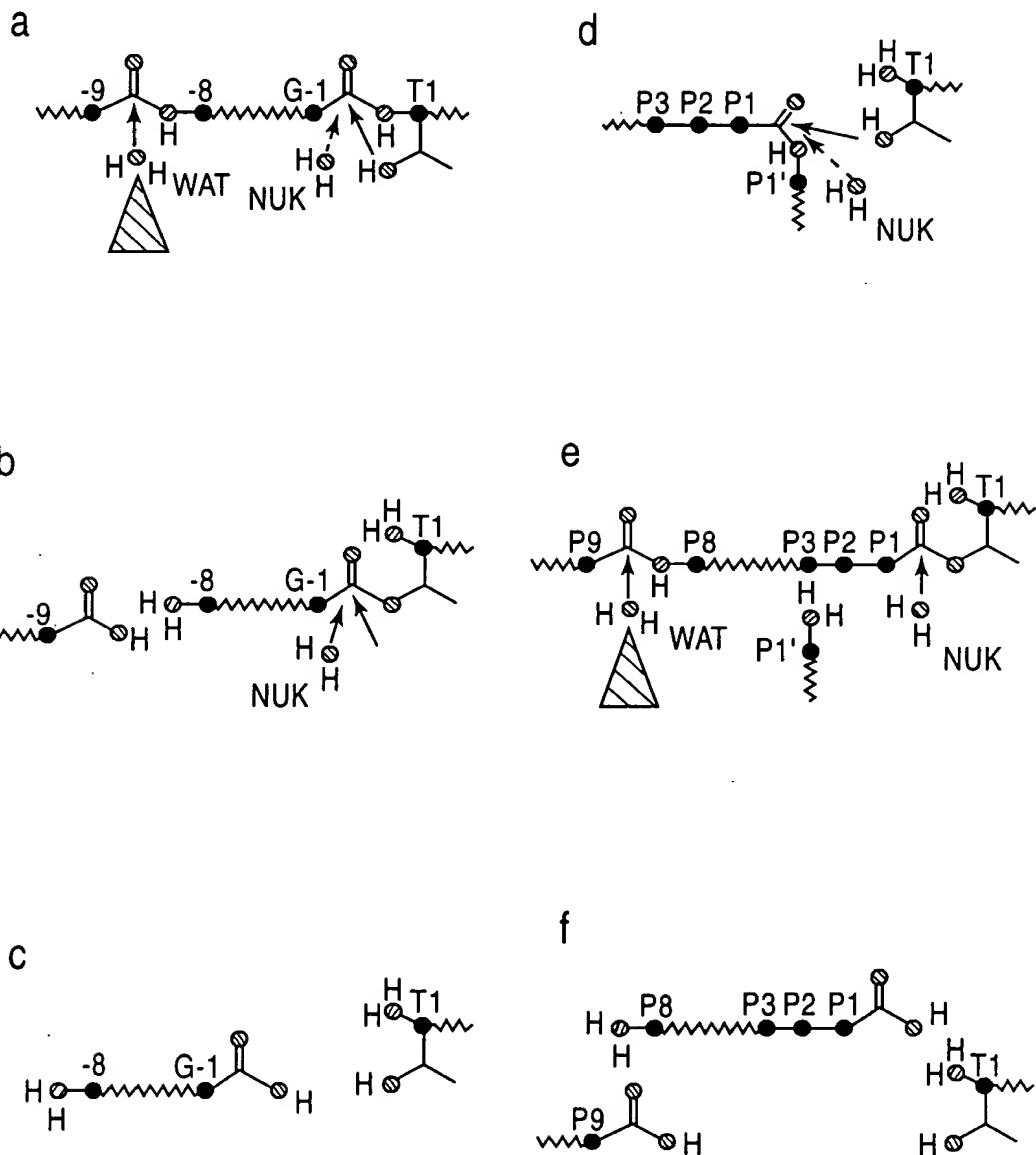
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Fig.5



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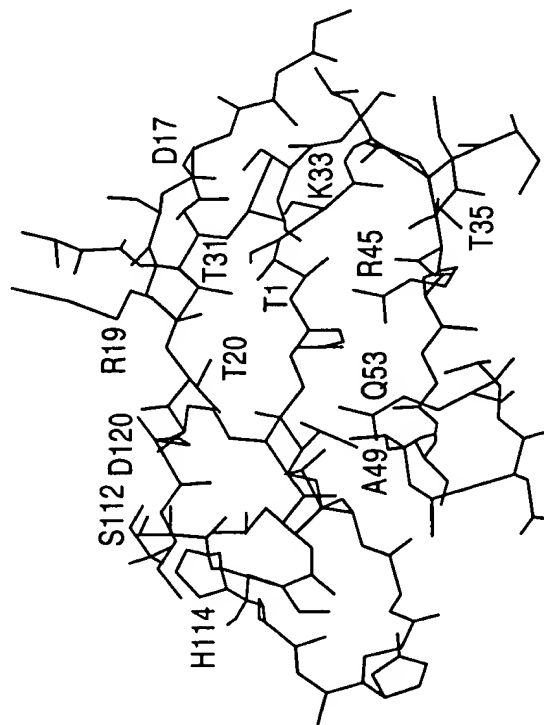
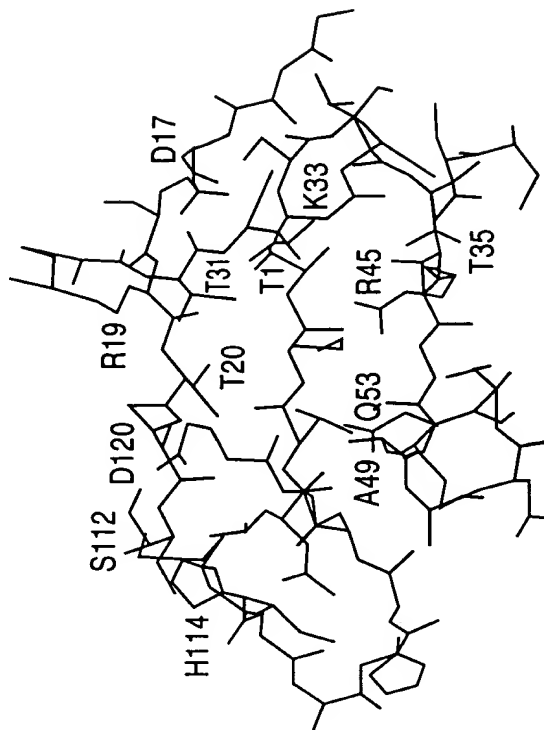
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Process for Purification

Fig.6A



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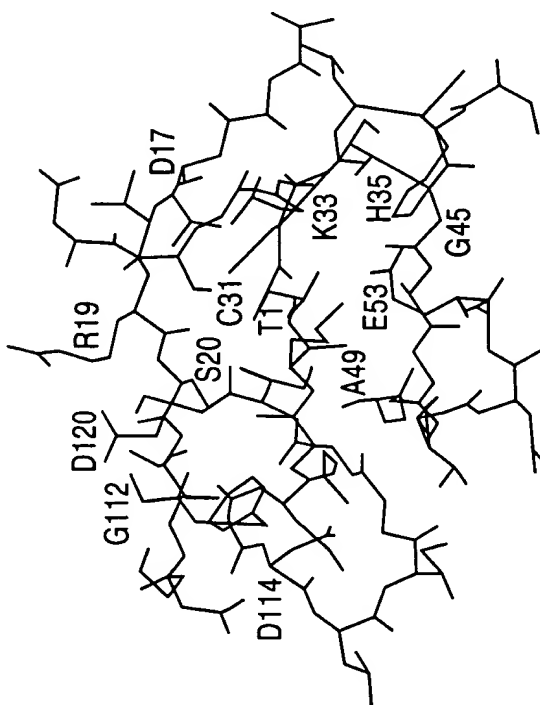
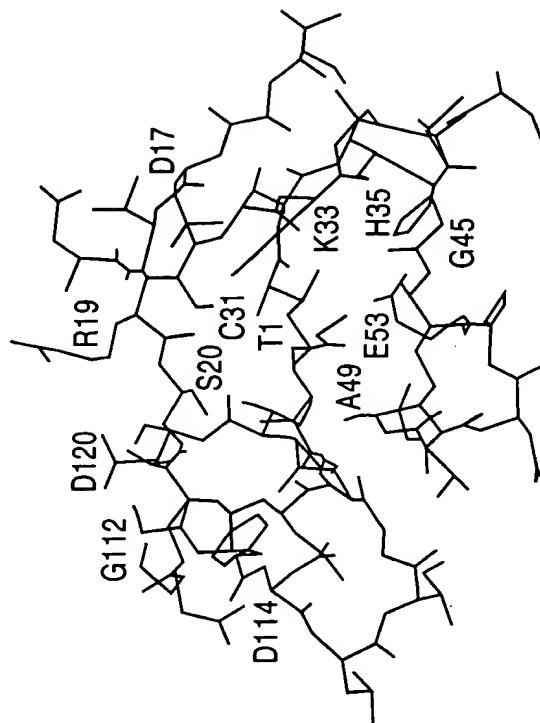
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Fig. 6B



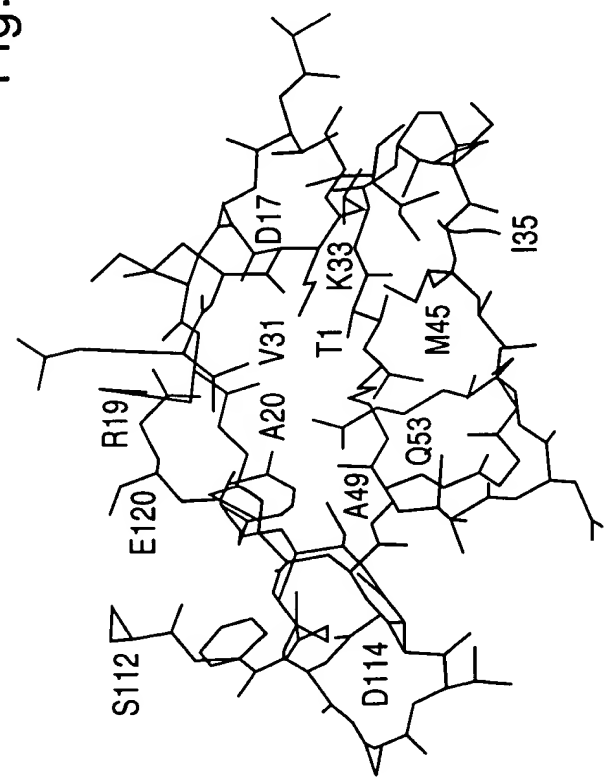
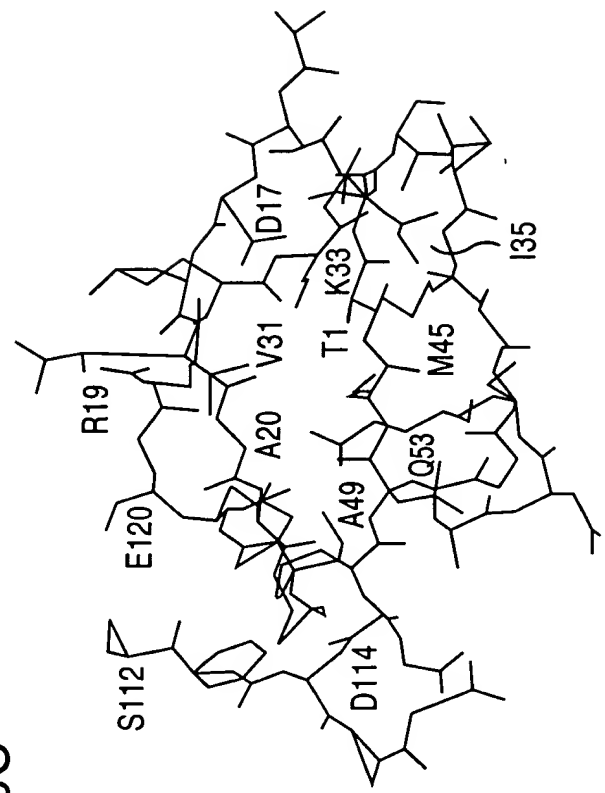
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Fig.6C

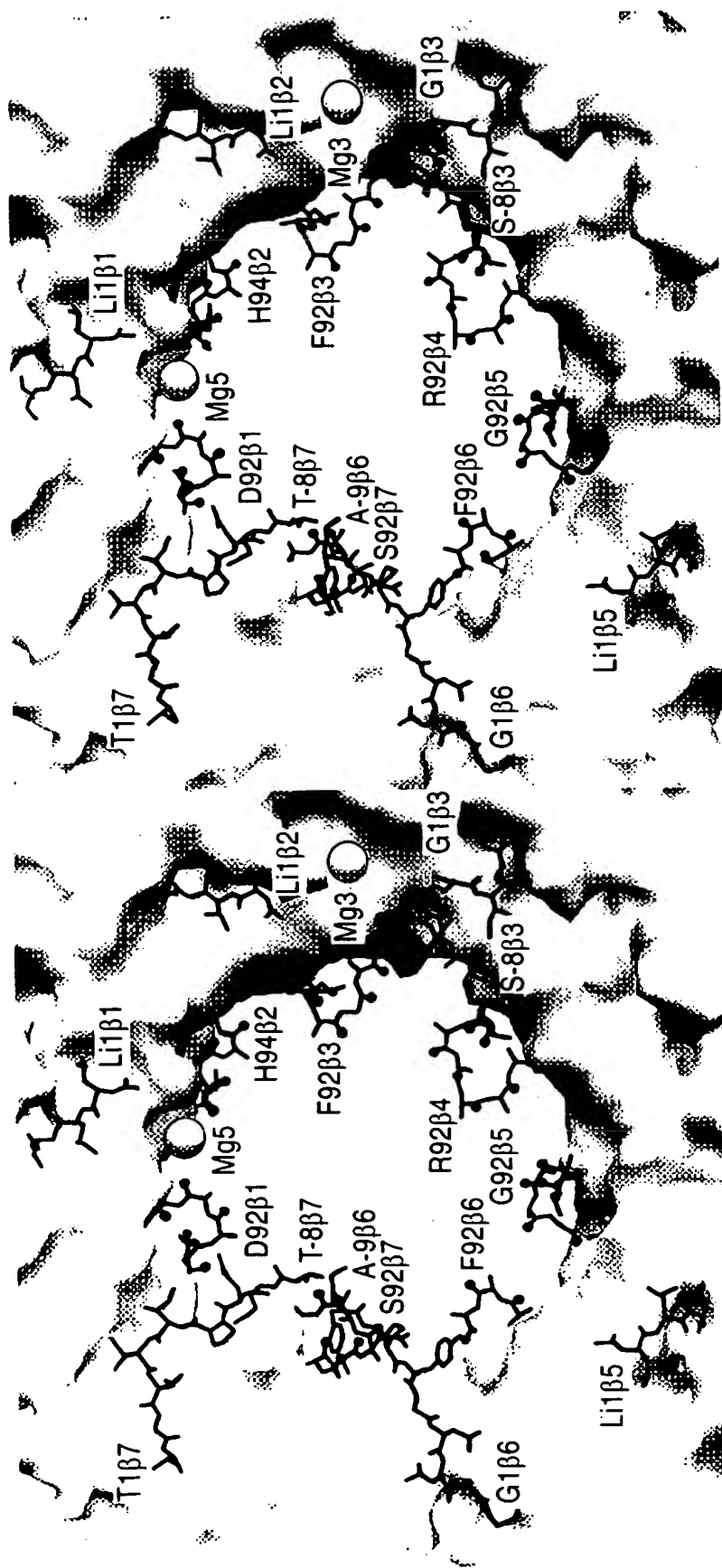


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Fig.7



*Process for Purification*

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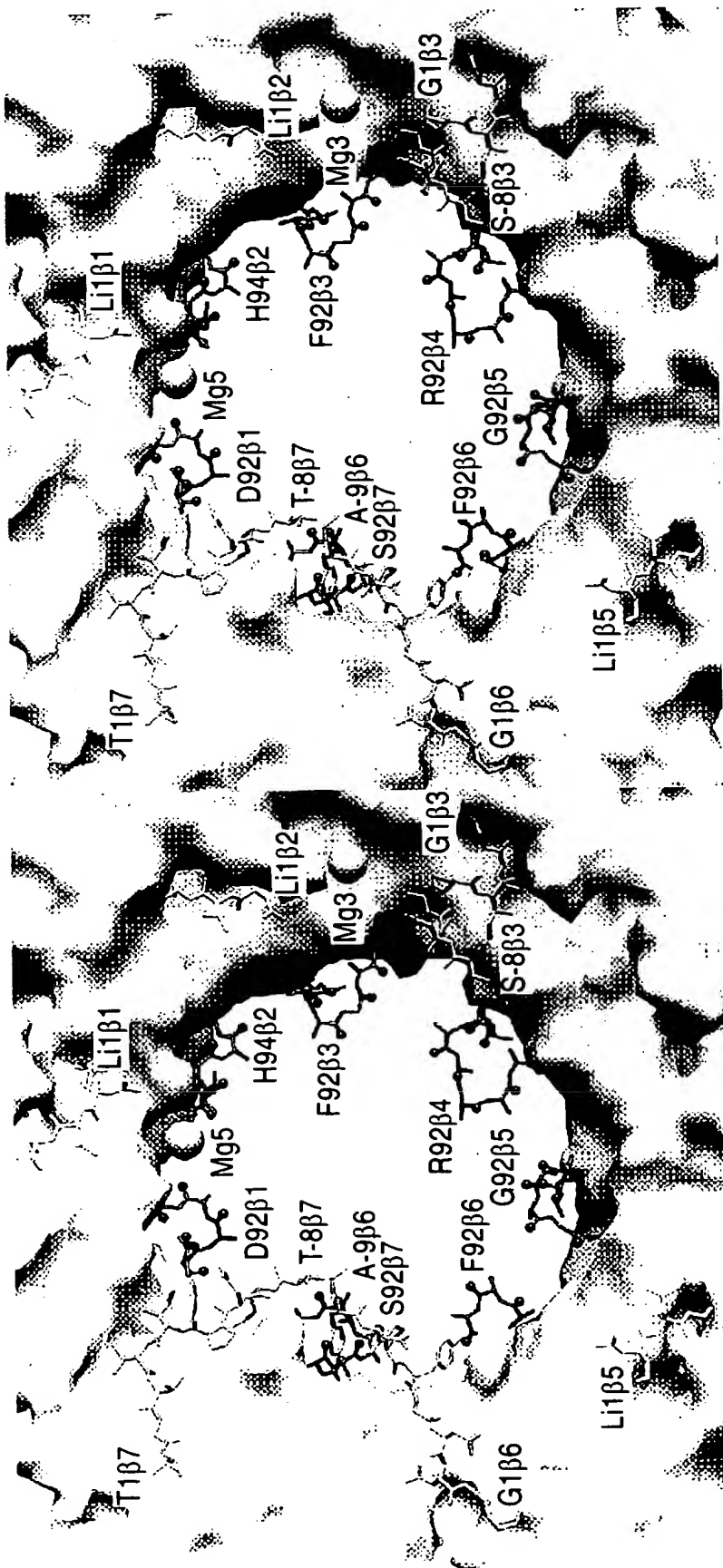
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Fig. 7



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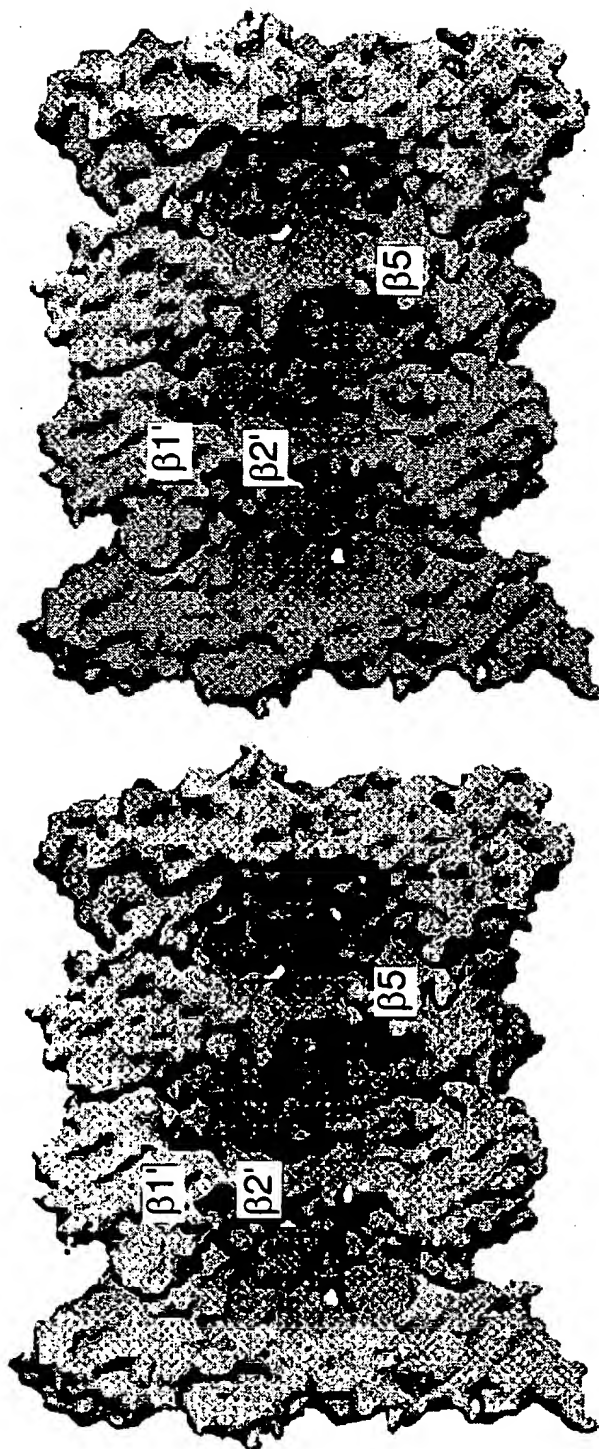
1425 K STREET, N.W.

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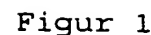
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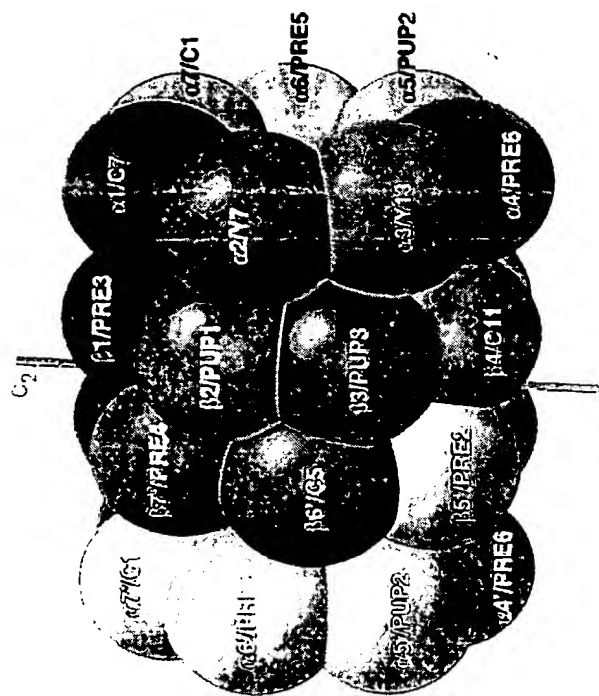
Fig.8



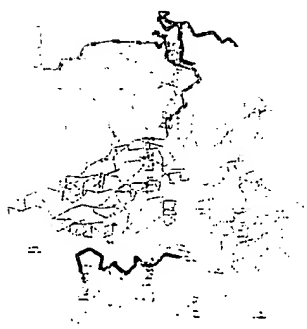
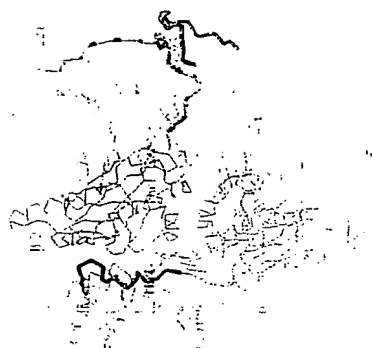
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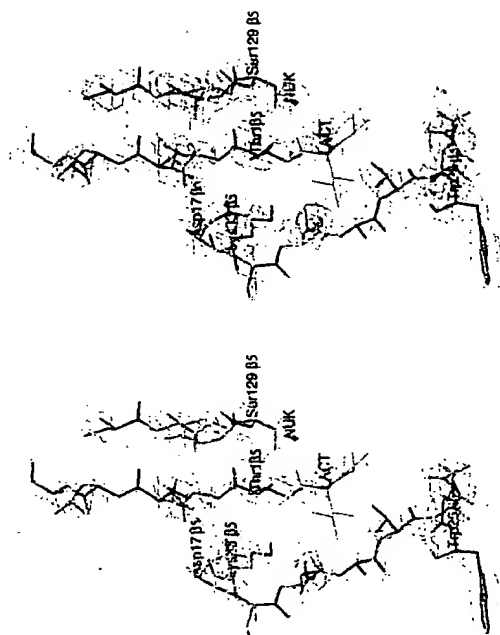
Figur 1



Figur 2

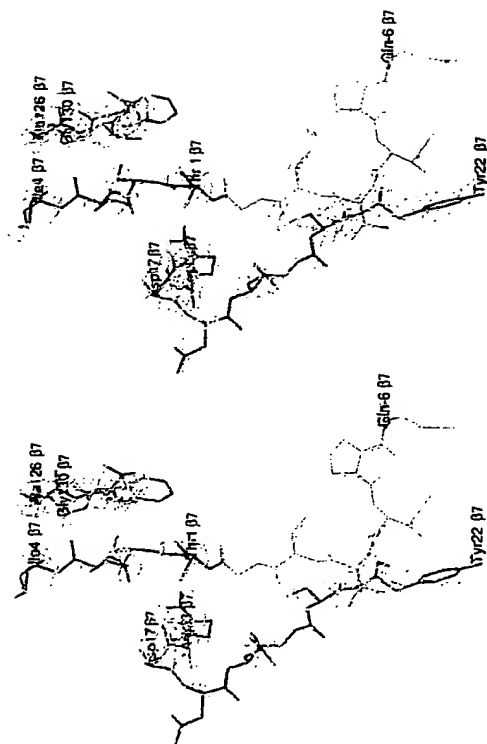


Figur 3



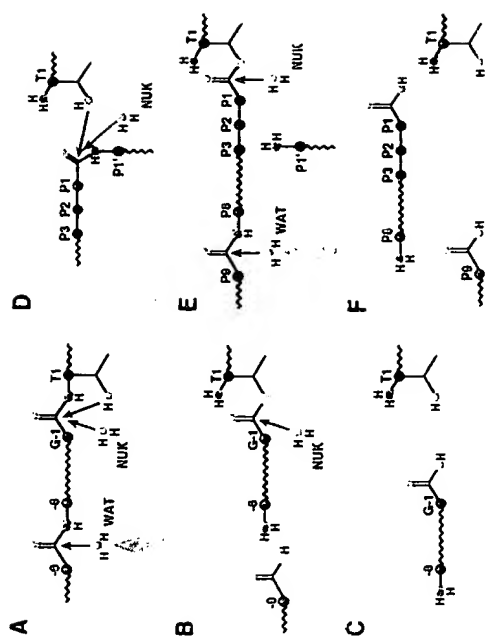
ldiac map2

Figur 4a



pre4 map2

Figur 4b



Figur 5

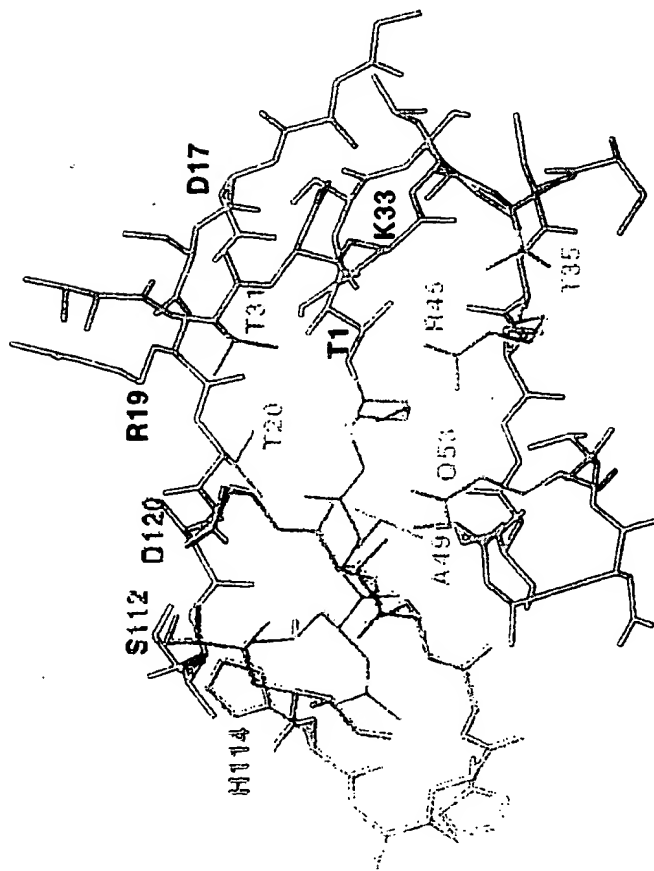
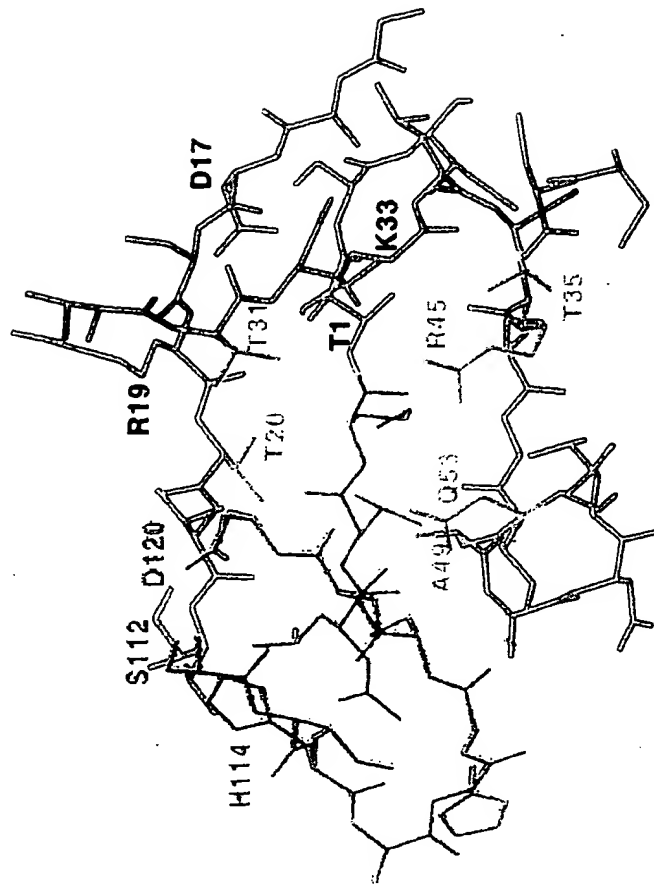


Figure 6a

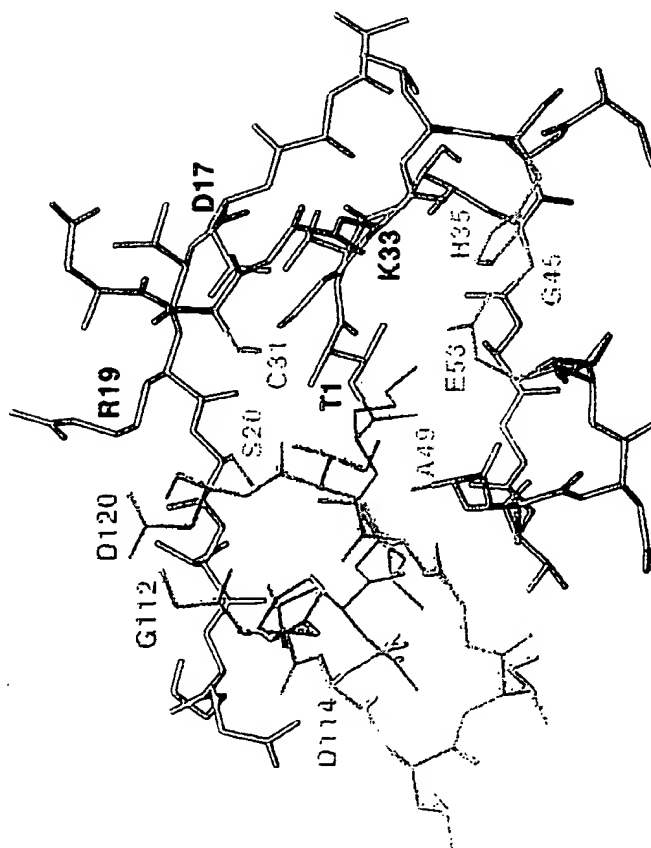
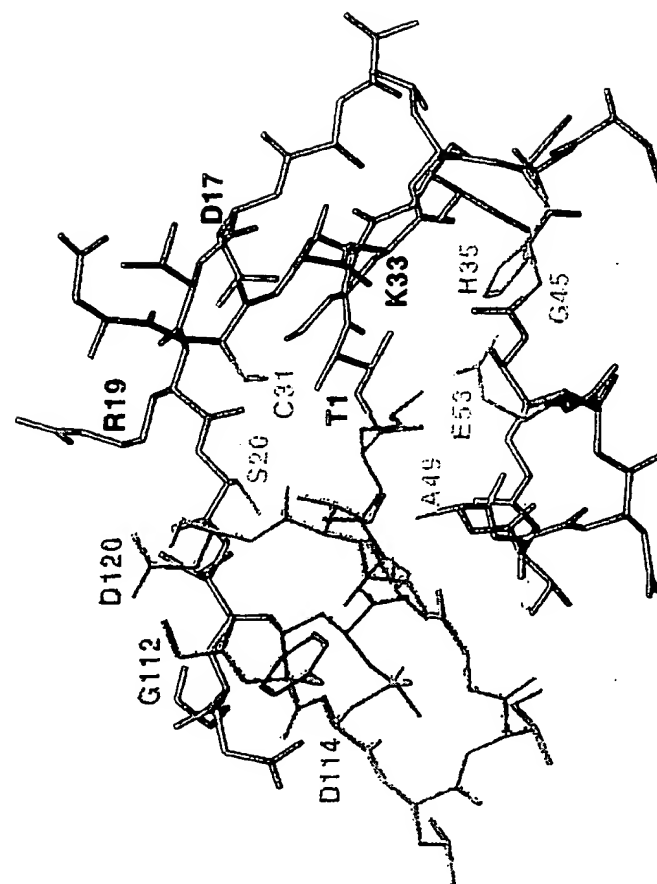
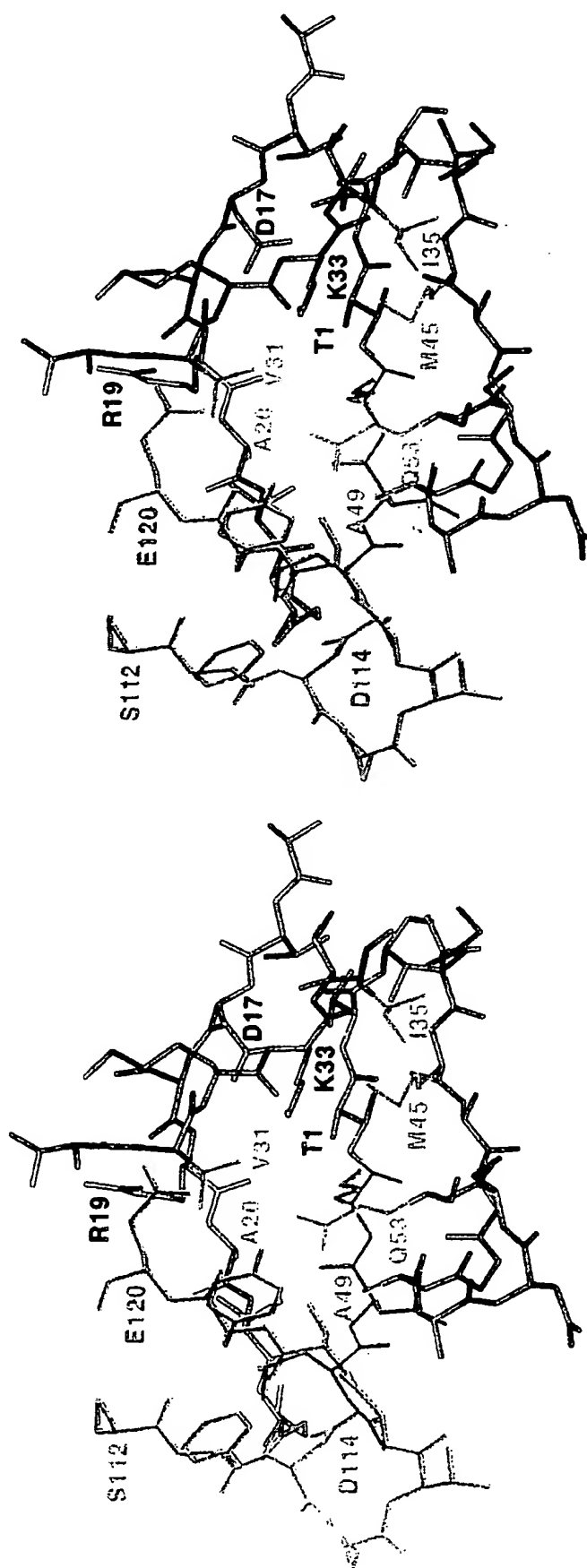
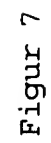


Figure 6b



Figur 6c





Figur 8